MovieTool
MPEG-7 Description Tool

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MovieTool is …

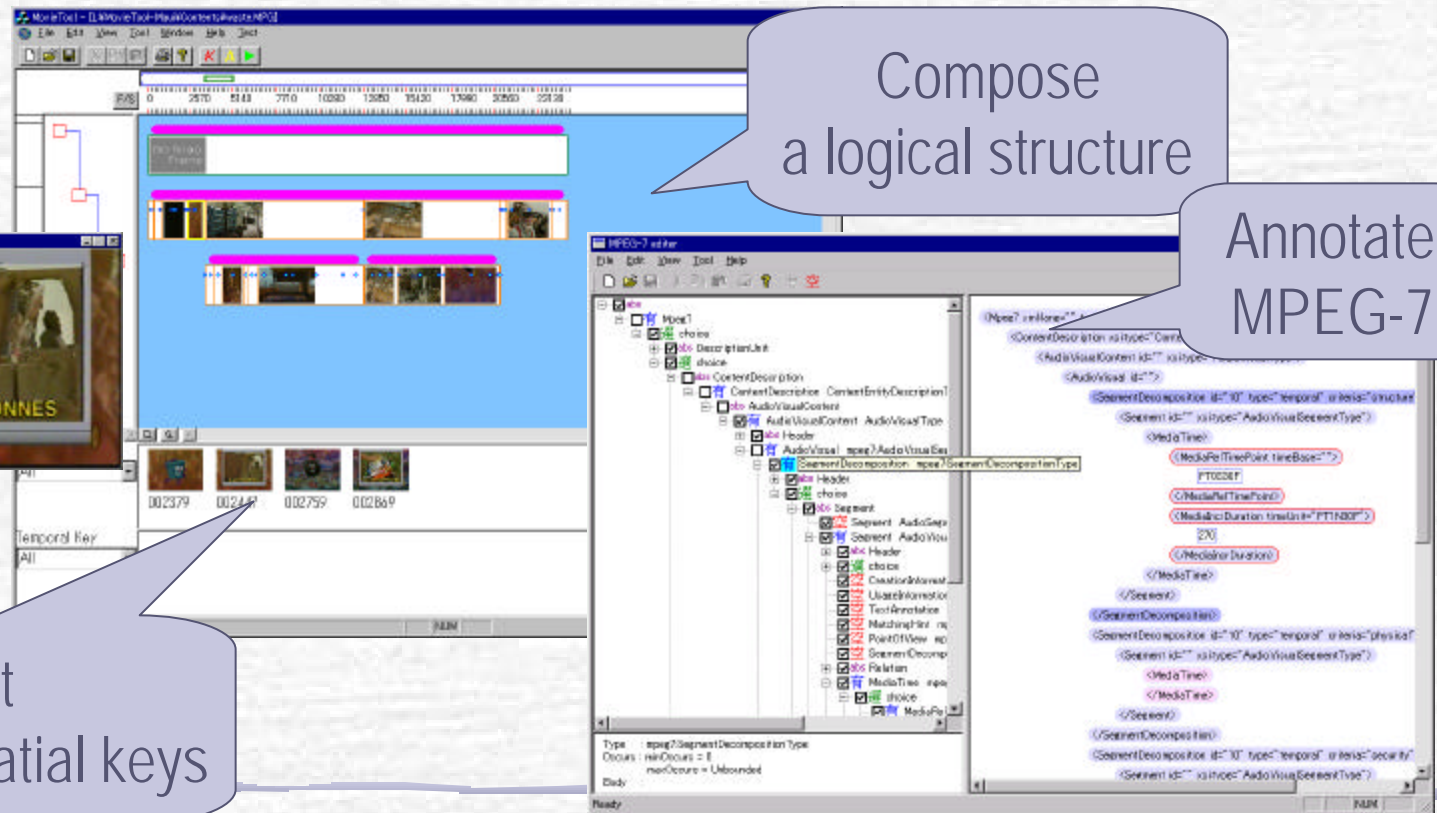## A logical structure composer & MPEG-7 editor

Preview

Compose
a logical structure

Annotate
MPEG-7

Detect
temporal / spatial keys

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MPEG-7 tools

- MPEG-7 DSs/Ds are categorized into two parts

(semi) Automatic description

SegmentDS,
MediaTimeD, …, etc.
Feature Extraction

Visual segmentation tool

Manual description

CreationInformationDS,
UsageInformationDS,
TextAnnotationDS, …etc.

Input text by hand

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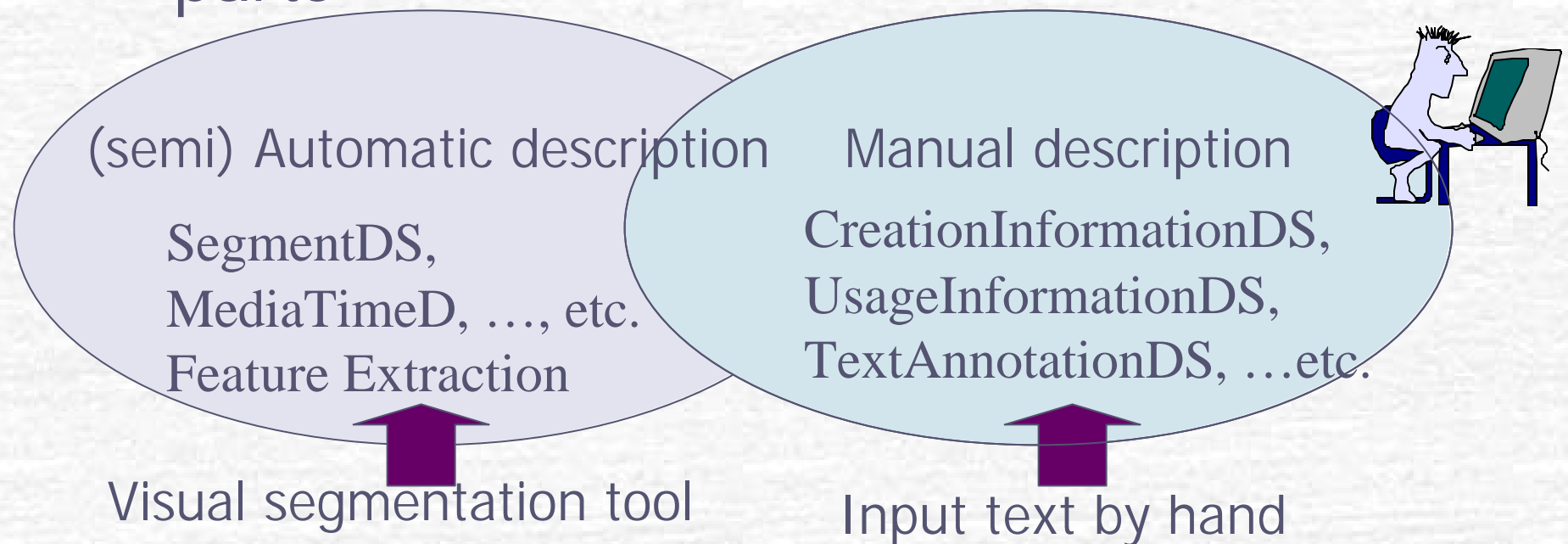
MovieTool's Policy

MovieTool has two description approaches

- 1. Logical structure composer
  - Easy to use if a user does not know MPEG-7 syntax
  - Construct a logical structure using a visual I/F
- 2. MPEG-7 editor
  - Edit instance using MPEG-7 DSs/Ds tools
 - MPEG-7 tools are dynamically generated according to the MPEG-7 schema

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Logical structure composer -1

- Interactive segmentation tool
- Assign multiple media instances
- Construct a logical structure for video
  - Semi-automatic/manual segmentation
    - Cut detection, manual segmentation helper
  - Key frame/range detection
- Easy visual I/F

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Logical structure composer -2
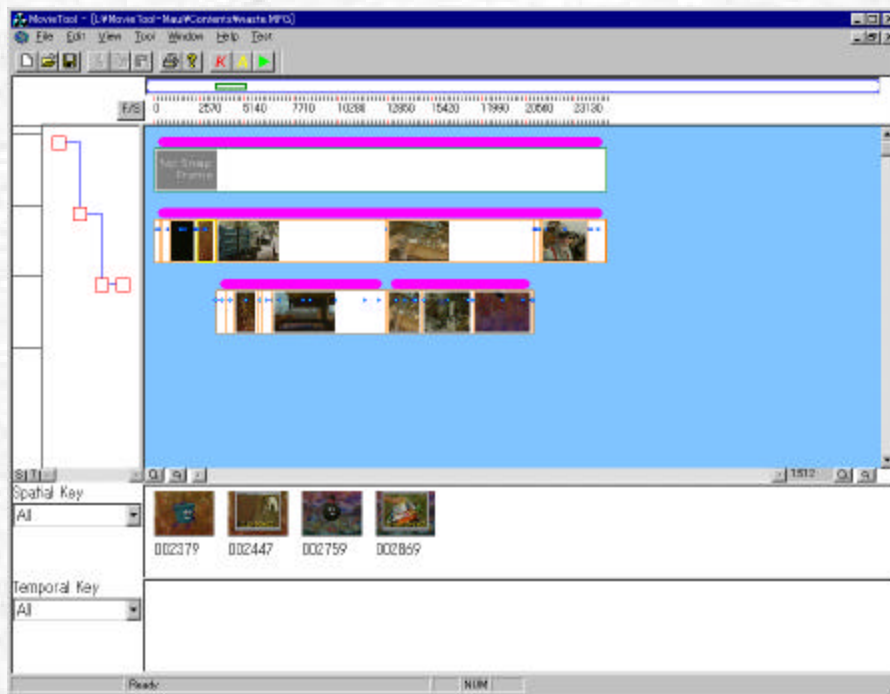
Logical Structure View

Manual segmentation helper

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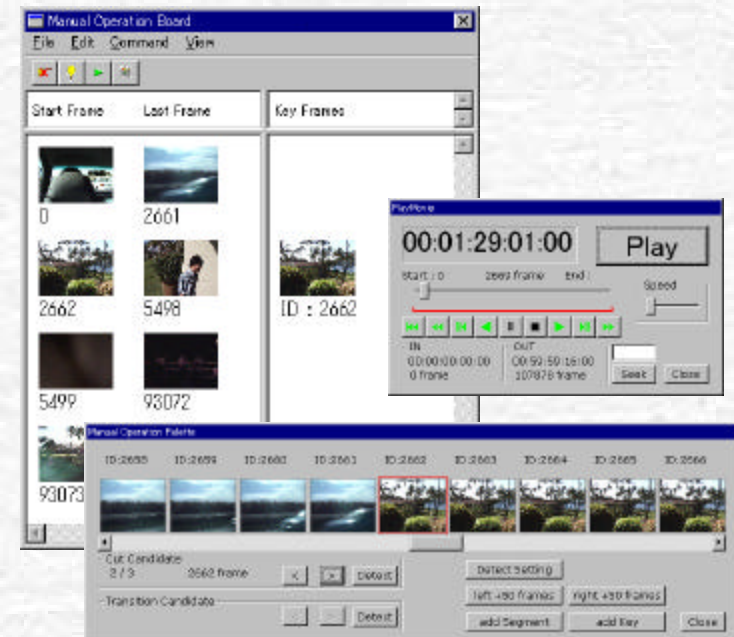
MPEG-7 Editor -1

- MPEG-7 instance editor with hybrid view
  - Instance tree
  - DSs/Ds candidates shown with the instance
- Dynamic mapping structure to/from the composer
- Input and output MPEG-7 instance file

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MPEG-7 Editor -2

Describing video content

Video Content

MPEG-7 schema

MPEG-7 instance

MovieTool

Segmentation, Key frame detection

Dynamic mapping

Annotation

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